

Air Force Technical Manual Contract Requirements (TMCR)
for
A-10 Digital Video Recorder (DVR)

ATTACHMENT 01 TO CDRL SEQUENCE NUMBER A013 EXHIBIT N/A
REQUEST FOR PROPOSAL/CONTRACT: _____

Date: **26 Feb 2004**

Technical Manual/Technical Order requirements contained herein have been cleared for use by OMB No. 0704-0188, 21 July 1986.

SECTION 1. TECHNICAL ORDER (TO) PROGRAM REQUIREMENTS

1. TMCR Tailoring. Offerors MUST tailor this TMCR document, including the associated tables, matrices and Specification/Standard Interface Requirements (SIRs). The tailored TMCR shall be attached to the CDRL for TO delivery, and shall be included in the proposal as a separate exhibit, referenced in the proposal SOW. Proposals shall be compatible with the Air Force infrastructure and support the DVR Program's CALS implementation strategy as documented in the Government Concept of Operations (GCO, *Defense Acquisition Deskbook (DAD)*, Section 3.7), located at Hill Air Force Base, Ogden, Utah. Air Force TO Acquisition procedures, including procedures for tailoring this document, are found in TO 00-5-3, located on the World Wide Web (WWW) at URL <http://www.pdsm.wpafb.af.mil/toprac/to-syste.htm>. Any terms or procedures found in this document may be researched there.

2. TO Program Scope. The offeror shall tailor Section 2 to propose the TO types (Table 1) and source data, TO updates and commercial manuals (Table 2) required to support the DVR program's objectives. Page-oriented Military Specification (MILSPEC) TOs must be formatted with text, graphics and delivery according to MIL-STD-38784 and applicable performance or detail (MIL-PRF or MIL-DTL) specifications. The offeror may propose use of Non-Government Specifications or Standards (NGS) for development of TOs, but must justify this choice based on life-cycle cost savings to the government and compatibility with existing systems identified in the GCO and the System Support Plan.. **NOTE:** If Interactive Electronic Technical Manuals (IETMs) are proposed (MIL-PRF-87268 and MIL-PRF-87269), contact the Procuring Contracting Officer (PCO) and TO Manager to request guidance from the Air Force Preparing Activity (PA), MSG/MMF, 4375 Chidlaw Rd Suite 6, WPAFB OH 45433-5006.

3. Commercial Manuals. Offerors shall propose the use of existing commercial manuals to the maximum extent possible without impairing program support objectives. The proposal will describe the method used to recommend and submit specific manuals to the government for review and approval. **NOTES:** a) Contractor Furnished Aeronautical Equipment/Contractor Furnished Equipment (CFAE/CFE) Notices, Data Item Description (DID) DI-TMSS-80067, may be used to provide recommendation data. b) The government will use MIL-HDBK-1221 as a guide for review and acceptance of all recommended commercial manuals, and MIL-PRF-7700 as an additional guide for commercial Flight Manual contents.

4. Technical Manual Specifications and Standards (TMSS) Tailoring. TMSS are tailored by deleting requirements not needed for program TOs, and by selecting between options offered. The tailoring is recorded in SIRs and added to Section 3 of this document. AF options in some Joint-Service TMSS have been documented in preliminary SIRs included in Section 3. Offerors shall complete tailoring of the Joint-Service TMSS SIRs and provide recommended SIRs for other TMSS or NGS as applicable. Questions and conflicts with TMSS requirements may be resolved by written request and justified sug-

gestions for resolution submitted through the PCO to Lisa Cummings/TOMA, (801) 586-3804, OO-ALC/LGVT, 6042 Fir Ave., Hill AFB, UT 84056-5826. Approved recommendations, corrections and clarifications will be maintained with contract documentation. **NOTE:** Tailoring must not change or delete mandatory requirements which are part of the Document Type Definition (DTD) structure.

5. Subsequent TO/Data Requirements. Offerors shall propose a process for notifying the government when additional TO or source data requirements are identified subsequent to contract award. This process shall require government review and approval of recommended additional requirements prior to contractual approval. **NOTE:** The recommended notification process is to use CFAE/CFE Notices (DI-TMSS-80067).

6. TO Development. The offeror shall propose TO development practices and procedures that ensure TOs and data are compatible with the Technical Order Concept of Operations (CONOPS)

(https://www.afmc-mil.wpafb.af.mil/HQ-AFMC/DR/tovision/files_toconops/01dec00_toconops_rev3.3.doc) and the JCALS JTMS.

6.1. The preferred method is to use the TMSS specified in Section 2 to produce TO files (instances) tagged using Standard Generalized Markup Language (SGML) according to the DTDs referenced in the appendix to MIL-STD-38784 and each specification. Before developing any DTDs, the acquiring activity shall contact MSG/MMF for pre-approval. If permission is granted, the offeror must submit any Digital Support Suites (DSS) developed to support use of NGS, canceled TMSS or undeveloped TMSS DTDs through the PCO and TO Manager to MSG/MMF for validation of JCALS compatibility; new DTDs shall not be developed in lieu of existing DTDs, including those for legacy TMSS. DSS submitted and approved in execution of the contract shall become the property of the Government. Questions about the application of SGML tagging to digital TO files can be directed to sgmlsupport@wpafb.af.mil.

6.2. SGML-tagged TO files shall include required illustration files in an approved graphics exchange format (see "Graphics Guidelines" under "Vital Information" on the IDE TMSS/SGML web page (<http://www.pdsm.wpafb.af.mil/tmss/index1.html>)). See TO 00-5-3 for additional guidance.

NOTE: Illustration files developed and delivered for other purposes shall be used in lieu of developing special TM illustration files whenever possible.

6.3. A first article test sample of each TO type shall be forwarded to MSG/MMF for testing to verify that the digital TO files meet minimum AF standards. First article testing should be repeated whenever new DSS or DTD versions are used for TO development.

7. TO Numbering. Offerors shall propose a method for notifying the government of which manuals require TO numbers. TO numbers are not required for manuals to be used exclusively by contractor personnel. (**NOTE:** DI-TMSS-80067 may be used to provide the notification.) AF procedures for numbering TOs are described in TO 00-5-3 and AFMCMAN 21-1 (<http://www.pdsm.wpafb.af.mil/toprac/to-syste.htm>).

8. Data Rights. Government rights in data are specified in the Defense Federal Acquisition Regulation Supplement (DFARS), paragraphs 227-7102 through 227-7104, located at Hill Air Force Base, Ogden, Utah. Offerors shall propose Unlimited Rights for all source data and TOs prepared specifically for the contract. If some TOs or source data are copyrighted or contain proprietary data or procedures, offerors may propose Limited Rights or Government Purpose License Rights (GPLR) only. Proposed commercial manuals should be provided with at least GPLR or Limited Rights. Copyrights shall be according to DFARS paragraphs 227-7103, 7105 or 7106.

9. Classification, Distribution, Destruction, Disclosure, and Export Control Notices. Offerors shall propose methods for determining, marking and controlling classified and restricted distribution data and

TOs. Processes must conform to government requirements specified in DOD 5200.1-R, DODD 5230.24, AFIs 31-401 and 61-204, and MIL-STD-38784. **NOTE:** Distribution limitations are normally determined on a case-by-case basis as TOs are developed, dependent upon TO content.

10. TO Quality. Offerors shall propose a quality assurance program which ensures TOs prepared are: a) 100% technically accurate; b) written to a scope and depth of coverage sufficient to support the operations and maintenance concepts, and to the Reading Grade Level (RGL) specified in MIL-STD-38784; c) compatible with the JCALS JTMS; and d) properly classified and marked with export control and distribution limitation statements. Recommended QA methods include actual performance of procedures and use of desk-top analysis for non-procedural data. Simulation (walk-through/talk-through) should be reserved for those procedures which would activate explosive devices or present a hazard to personnel or equipment. Offerors' proposals should describe how the government will be allowed to interact with the contractor's TO development team. **NOTE:** Quality requirements for the Joint Nuclear Weapons Publications System (JNWPS) and for Non-nuclear Explosive Ordnance Disposal (EOD) Data are contained in TO 11N-1-1 and DOD Directive 5160.62, respectively. The government performance-tests all JNWPS and EOD TOs.

10.1. Conferences and Technical Reviews. Offerors shall propose sufficient conferences and reviews to allow insight into TO development processes and ensure contract compliance. Offerors normally host an initial Guidance Conference or Technical Interchange Meeting (TIM) within 60 days of contract award to ensure mutual understanding of TO contract requirements, schedules, points of contact, etc. Periodic In-Process Reviews (IPRs) and Prepublication Reviews (PPR) ensure TOs are being developed according to contract requirements and that open discrepancies are cleared prior to publication. **NOTE:** PPRs are required for critical safety and nuclear surety procedures TOs, and may be required for other complex procedures TOs.

10.2. TO Certification. Offerors shall propose their method for documenting certification that TO procedures are accurate, adequate, current, and usable for their intended purposes.

10.3. Verification Support. Offerors shall propose the methods, equipment and personnel required to support government TO Verification. This support should consist of at least two tech writers and two engineers. Government comments shall be incorporated following the Verification task and will be available in the PrePub Review copies. The offeror shall participate on TO Review Boards (TORBs) and Flight TORBs.

10.4. First Article Testing (FAT). An in-work sample of each type of SGML-tagged TO file shall be forwarded to MSG/MMF concurrent with the IPR, to verify compliance of the digital files to Air Force DSSs. Five percent of the digital TO files to be delivered in Indexed Portable Document Format (IPDF) shall be provided as part of the prepublication reviews to verify compliance with the Technical Order Conversion Requirements (TOCR) (http://www.pdsm.wpafb.af.mil/toconv/Tocr_r1.doc).

11. TO and Source Data Maintenance. Offerors shall propose methods for maintaining accuracy, currency and configuration of TOs and source data throughout the contract period of performance. Maintenance includes preparation of TO and source data updates to incorporate corrections, equipment configuration changes, and maintenance and operational concept changes.

12. TO Delivery. Offerors shall propose practices and procedures for access to or delivery of digital TO files, including those for Preliminary TOs (PTOs), source data, reproduction masters, and program support data. Practices and procedures shall be compatible with the program's Contractor Integrated Technical Information Service (CITIS) agreement (if on contract) and Government Concept of Operations (GCO – found in Hill Air Force base, Ogden, Utah). TO file delivery formats shall be according to applicable CDRLs and the tailored TM Delivery Requirements Matrices included in Section 2 of this

document. Paper TO delivery is not acceptable for final delivery of TOs. **EXCEPTION:** When cost analysis proves the paper delivery is more cost effective over the life-cycle of the program or project, and for some Commercial Manuals not available digitally.

12.1. SGML-Tagged Files. The government will parse and compose SGML-tagged TO document files prior to acceptance and verify that content tagging has been accomplished to the levels provided in the DTD. **NOTE:** The Internet address for public domain SGML parser software is “<ftp://ftp.jclark.com/pub/sgmls/>.”

12.2. Indexed Adobe™ Portable Document Format (IPDF) Files. Indexing specifications for PDF TO files are contained in the Technical Order Conversion Requirements (TOCR) (http://www.ide.wpafb.af.mil/toconv/Tocr_r1.doc).

13. Schedules. Offerors shall include TO program events and schedules in their proposed Integrated Master Plan (IMP) and Integrated Master Schedule (IMS), and update the IMS throughout the period of performance. **NOTE:** AF policy requires delivery of verified TOs prior to or concurrently with delivery of operational equipment to the field (AFPD 21-3). This policy will determine TO development and delivery schedules throughout the acquisition phase of a program.

14. Time Compliance Technical Orders (TCTOs). Offerors shall propose practices and procedures to develop AF TCTOs and related TO updates when tasked as part of the approval process for Engineering Change Proposals (ECPs) to configured items. Costs for TCTO package development must be included in ECP Costs – not included as direct proposal costs. **NOTE:** ECPs are reviewed and approved by the Government’s Configuration Control Board (CCB). When the CCB decides that a TCTO is the appropriate method of implementation, the contractor may be requested to develop the TCTO package for Air Force coordination and approval. See TO 00-5-15, AFMCI 21-302 and AFMCMAN 21-1 (<http://www.pdsm.wpafb.af.mil/toprac/to-syste.htm>) for a detailed description of the TCTO system.

15. TO Reproduction Management. N/A for digital deliveries.

SECTION 2. TM TYPE AND DELIVERY REQUIREMENTS

NOTES:

- Mark the TM Type Selection Tables indicating the applicable TO types and related specifications. For additional interface requirements see the program-specific Government Concept of Operations (GCO) and DOD 5000.2-R.
- Manuals delivered using this table and DI-TMSS-80067, CFAE/CFE Notices, must be reviewed and approved by the Air Force prior to delivery.
- IPBs are developed IAW MIL-PRF-38807, except that MIL-DTL-87929 will also be used for IPBs combined with work packages.
- All checklists, except aircrew and nuclear weapons checklists, are developed IAW MIL-PRF-5096.
- MIL-PRF-83495 requires DOD-STD-863 requirements to be levied on engineering data for preparation of end item wiring data and schematic diagrams.
- Delivery requirements are indicated in the TM Delivery Requirements matrices.
- For further information on Air Force Digital Data Strategy, see WWW address http://www.pdsm.wpafb.af.mil/datamgt/data_mgt.htm.
- *To use the fill-in boxes in the tables and matrices, double-click next to a box and change the "Default text" or "Default value" in the pop-up dialog box as required. (Delete this note prior to placing TMCR on contract.)*

PART A – TM TYPE SELECTION TABLES

TABLE 1
TMSS REQUIREMENTS FOR THE DVR Program

Title or Type of Manuals	Specification	Required
1. Inspection TOs	MIL-PRF-5096	
a. Inspection and Maintenance Requirements (-6) Manual		<input type="checkbox"/>
b. Acceptance and Functional Check Flight (FCF) Procedures (-6CF) Manual		<input type="checkbox"/>
c. Acceptance and Functional Check Flight (-6CL) Checklist		<input type="checkbox"/>
d. Workcards		<input type="checkbox"/>
e. Inspection Requirements Cards		<input type="checkbox"/>
f. Flow/Sequence Charts		<input type="checkbox"/>
g. Checklists		
(1) Maintenance/Operations (Non-Aircrew)		<input type="checkbox"/>
(2) Operations (Aircrew)		<input type="checkbox"/>
2. Cargo Aircraft Loading and Offloading TOs	MIL-PRF-5288	
a. Manual		<input type="checkbox"/>
b. Checklists		<input type="checkbox"/>
3. Weight and Balance (Aircraft)	MIL-PRF-5920	
a. Loading Data Manual		<input type="checkbox"/>
b. Sample Basic Weight Checklists		<input type="checkbox"/>
4. Flight Manuals (see notes)	MIL-PRF-7700	
a. Flight Manual		<input type="checkbox"/>
b. Performance Data Manual		<input type="checkbox"/>
5. List of Applicable Publications	MIL-PRF-8031	<input type="checkbox"/>
6. Structural Repair Manuals (for Aircraft)	MIL-PRF-9854	<input type="checkbox"/>
7. Munitions/Weapons Loading Procedures, Non- nuclear and Nuclear	MIL-PRF-9977	
a. Nuclear Weapons Basic Information and Loading Procedures		<input type="checkbox"/>
b. Nuclear Weapons Loading Procedures		<input type="checkbox"/>
c. Non-nuclear Munitions Basic		<input type="checkbox"/>
d. Non-nuclear Loading Procedures		<input type="checkbox"/>
e. Integrated Combat Turnaround Procedures		<input type="checkbox"/>
f. Non-nuclear Munitions Loading Standard Data Packages (SDPs)		<input type="checkbox"/>
g. Loading Procedures Checklists		<input type="checkbox"/>
h. Integrated Loading Procedures Checklists		<input type="checkbox"/>
i. Nuclear Weapons Loading Procedure Checklists		<input type="checkbox"/>
j. Integrated Combat Turnaround Procedures Checklists		<input type="checkbox"/>
k. NATO Stage B Cross-Servicing Checklists		<input type="checkbox"/>

TABLE 1
TMSS REQUIREMENTS FOR THE DVR Program

Title or Type of Manuals	Specification	Required
8. Mobile Training Sets (MTS) and Part Task Trainer TOs	MIL-PRF-9994	
a. Single Manual		<input type="checkbox"/>
b. Single Manual w/IPB		<input type="checkbox"/>
c. General/Systems Trainer Manuals		<input type="checkbox"/>
d. General/Systems Trainer Manuals w/IPB		<input type="checkbox"/>
e. Part Task Trainer Manuals		<input type="checkbox"/>
9. Space Operations and Support Documentation TOs		
-- Commercial specification (all space systems & missiles)	ANSI/AIAA-R024-1993	<input type="checkbox"/>
-- MILSPEC (Intercontinental Ballistic Missiles)	MIL-PRF-38311	<input type="checkbox"/>
-- MILSPEC (Space Systems)	MIL-PRF-38314	<input type="checkbox"/>
a. Operations Manual		<input type="checkbox"/>
b. Operations Checklists		<input type="checkbox"/>
c. Technical Manuals and Related Checklists		<input type="checkbox"/>
10. Nuclear and Non-nuclear Weapon Delivery and Aircrew Procedures Manuals and Checklists	MIL-PRF-38384	
a. Non-nuclear Weapon Delivery Manual (Strategic Bomber & Tactical Aircraft)		<input type="checkbox"/>
b. Nuclear Bomb Delivery Manual (Strategic Bomber Aircraft)		<input type="checkbox"/>
c. Aircrew Nuclear Weapon Delivery Manual (Strategic Bomber Aircraft)		<input type="checkbox"/>
d. Aircrew Nuclear Weapon Delivery Manual (Tactical Aircraft)		<input type="checkbox"/>
e. Non-nuclear Weapon Delivery Checklist (Strategic Bomber & Tactical Aircraft)		<input type="checkbox"/>
f. Nuclear Bomb Delivery Checklist (Strategic Bomber Aircraft)		<input type="checkbox"/>
g. Aircrew Nuclear Weapon Delivery Checklist (Tactical Aircraft)		<input type="checkbox"/>
h. Non-nuclear Weapon Delivery Source Data Packages		<input type="checkbox"/>
11. Air Refueling Procedures	MIL-PRF-38413	
a. Manual		<input type="checkbox"/>
b. Checklist		<input type="checkbox"/>
12. Work Unit Code Manual	MIL-PRF-38769	<input type="checkbox"/>
13. Calibration Procedures	MIL-PRF-38793	<input type="checkbox"/>
14. Time Compliance Technical Orders (TCTOs)	MIL-PRF-38804	<input type="checkbox"/>
15. Aircraft Battle Damage Assessment and Repair TOs	MIL-PRF-87158	<input type="checkbox"/>
16. Illustrated Parts Breakdown	MIL-PRF-38807	<input type="checkbox"/>

TABLE 1
TMSS REQUIREMENTS FOR THE DVR Program

Title or Type of Manuals	Specification	Required
17. On-Equipment Organizational Maintenance Manual Set (see notes)	MIL-PRF-83495	
a. General Equipment (GE) Manual		<input type="checkbox"/>
b. General System (GS) Manuals		<input type="checkbox"/>
c. Combined GE & GS Manual		<input type="checkbox"/>
d. Job Guide (JG) Manuals		<input type="checkbox"/>
e. Fault Reporting (FR) Manual		<input type="checkbox"/>
f. Fault Isolation (FI) Manual		<input type="checkbox"/>
g. Wiring Data (WD) Manual		<input type="checkbox"/>
h. Schematic Diagram (SD) Manual		<input type="checkbox"/>
18. Operation and Maintenance Instructions in Work Package Format	MIL-DTL-87929	
a. Maintenance Manuals		
(1) Intermediate Maintenance		<input type="checkbox"/>
(2) Depot Maintenance		<input type="checkbox"/>
(3) Combined (I&D) Maintenance		<input type="checkbox"/>
(4) On Condition Maintenance		<input type="checkbox"/>
b. Operation & Maintenance Instruction Manuals		<input type="checkbox"/>
c. Special Manuals		
(1) Aircraft Engine Testing and Trending Procedures		<input type="checkbox"/>
(2) Aircraft Power Package Testing Procedures		<input type="checkbox"/>
(3) Static Firing of Missile Motors		<input type="checkbox"/>
(4) System Peculiar Corrosion Control		<input type="checkbox"/>
(5) Nondestructive Inspection (NDI)		<input type="checkbox"/>
(6) Aircraft Structural Integrity Program (ASIP)		<input type="checkbox"/>
(7) ATE Operator Test Procedures		<input type="checkbox"/>
(8) Special Requirements for Storage and Maintenance Procedures; AUR Munitions/Launchers and Associated Support Equipment, Conventional Components and CMBR Agents		<input type="checkbox"/>
(9) Parachute Packing Procedures		<input type="checkbox"/>
(10) Operators Instructions (Hand-Held Flight Computers)		<input type="checkbox"/>
(11) Installation-Engineering Facility (Ground C-E Equipment)		<input type="checkbox"/>
d. Checklists (IAW MIL-PRF-5096)		<input type="checkbox"/>
e. With Illustrated Parts Breakdown (see notes)		<input type="checkbox"/>
19. Commercial Manuals (Evaluate according to MIL-HDBK-1221)		<input checked="" type="checkbox"/>
20. Aircraft Cross-servicing Guide	MIL-DTL-22202	<input type="checkbox"/>
21. Electronic Technical Manuals (Contact specification preparing activity for guidance.)	MIL-PRF-87268 MIL-PRF-87269	<input type="checkbox"/>

TABLE 2
ADDITIONAL TM TYPE SELECTIONS

NOTES:

- Check all applicable boxes.
- For commercial manual supplemental data only, under the specification heading, enter "Same style and format," "MIL-PRF-38807" (for IPB data), or "MIL-STD-38784."
- For existing MIL-SPEC manuals not being updated to latest specification requirements, enter "Same style and format" under the specification heading.

TO Number, Title, or Type of Manual	Specification	Com- mercial Manual	Change/ Revision	Supple- ment	Supple- mental TM	Source Data
1. <u>1A-10A-01</u>	MIL-PRF-8031	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. <u>1A-10A-1</u>	MIL-PRF-7700	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. <u>1A-10A-1CL-1</u>	MIL-PRF-7700	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. <u>1A-10A-1-2</u>	MIL-PRF-7700	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. <u>1A-10A-1-2CL-1</u>	MIL-PRF-7700	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. <u>1A-10A-6CF-2</u>	MIL-PRF-5096	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. <u>1A-10A-2-1-1</u>	MIL-PRF-83495	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. <u>1A-10A-2-94TS-1</u>	MIL-STD-38784	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. <u>1A-10A-2-94JG-4</u>	MIL-PRF-83495	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. <u>1A-10A-4-1</u>	MIL-PRF-38807	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. <u>1A-10A-4-94-1</u>	MIL-PRF-38807	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. <u>1A-10A-6</u>	MIL-PRF-5096	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**PART B - TM DELIVERY REQUIREMENTS
FOR A-10 DVR**

TM DATA TYPE DELIVERED ALL.
(TMSS/Change/Supplement/etc.)
(Replicate form for each TM type required.)

Delivery Format Requirements Codes

Paper (draft or manuscript only. Cannot be used for final delivery)
Mixed paper and digital (G/I)

Digital delivery only:
G. - Standard Generalized Mark-up Language (SGML).
I. - Indexed Portable Document Format (IPDF) File.

EXAMPLE: M(G) / 2 [Paper and SGML / 2 copies]

NOTES:

- Delivery format requirements codes indicate the media/file format to be delivered for each program event.
- TCTO requirements are specified in the contract vehicle approving the TCTO.
- When on-line access (e.g., CITIS) is a contractual requirement, copy quantity will normally be Ø (zero).

DELIVERY SCHEDULE				
Event ⇨ Number of days data required prior to event ⇨ Enter Office Symbol and Address ↓ ↓	Technical Review(s) (10 Days) ↓ Enter delivery requirements code/copy quantities required	Verification (10 Days) ↓	Prepublication Review (10 Days) ↓	Final TO Distribution (0 Days) ↓
OO-ALC/LGVT/6042 Fir Ave Hill AFB, UT 84056-5820	G / 1	GI / 1	GI / 1	G / 1
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	/	/	/	/
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Total Copies Required:	1	1	1	1

SECTION 3. SPECIFICATION/STANDARD INTERFACE RECORDS (SIRs)

NOTES:

- Most specification "Acquisition Requirements" list the same two items for paragraphs 6.2a and 6.2b. For this contract enter:
 - 6.2a. The title, number and date of each specification will be listed in the heading of the applicable SIR.
 - 6.2b. The issue of the DODISS used in this contract is 26 February 2004.
- Tailoring out digital requirements may result in parsing failure of the delivered files. All such tailoring must be coordinated with the specification Preparing Activity (PA).
- All TM specifications applicable to this contract require an appropriately tailored SIR attached to this section. MIL-STD-38784 must be included in all contracts/proposals for AF TMSS-developed TOs.
- Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the DoD Single Stock Point (DODSSP) Acquisition Streamlining and Standardization Information System (ASSIST) web page, URL: <http://www.dodssp.daps.mil/assist.htm>.

STANDARDIZATION INTERFACE RECORD FOR <u>MIL-DTL-22202D</u> ,	31 March 1999
Supplement 1,	31 March 1999
Manual, Technical, Aircraft Cross-Servicing Guide, Preparation of	

The requirements of 6.2 are met in this SIR (see below).

- 1.1 In addition to paper delivery, when this specification is used to develop digital delivery files (document type definitions – DTDs) contact the PA for additional instructions.
- 2.3 Ensure the listing for STANAG/ASCC Air Standard Documents is current. List applicable STANAG/ASCC Air Standards below.
(List STANAG/ASCC Air Standard Documents here.)
- 2.2.1 (Added) "Other government documents, drawings, and publications.

DEPARTMENT OF DEFENSE

DOD 5200.1-R	DoD Information Security Program Regulation
DOD 5220.22-M	National Industrial Security Program Operating Manual

4. Replace with: "**VERIFICATION.**
"All cross-servicing guides shall meet the requirements of sections 3 and 5 of this specification, as required by the acquiring activity. The requirements set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any requirements in this specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the government for acceptance comply with all requirements of the contract. Use of sampling inspections shall be at the discretion of the contractor, and in accordance with commercially acceptable quality assurance procedures. However, use of sampling in QA procedures does not authorize submission of known defective material, either indicated or actual, nor does it commit the government to accept defective material."
5. Replace with: "**PACKAGING.**
"5.1 Packaging Requirements. For acquisition purposes, the packaging requirements shall be as specified in the contract or order. When the actual packaging of material is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to determine packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department's System Command. Packaging data retrieval is available from the Military Department's or Defense Agency's automated packaging files, CD-ROM products, or the responsible packaging activity.
"5.1.1 Encoded Computer Products. Packaging of encoded computer products for delivery shall be in accordance with the requirements of MIL-STD-1840."

"5.1.2 Classified Material. Classified material shall be packaged and identified in accordance with DOD 5200.1-R, DOD 5220.22-M, and the implementing Service regulations."

- 6.2a Title, number, and date of the specification are listed above.
 6.2b Issue of DODISS: (*fill in issue of DODISS applicable to this contract*)
 6.2c Packaging requirements (see above).
 6.2d Verification requirements (see above).

STANDARDIZATION INTERFACE RECORD FOR MIL-STD-38784,
 Notice 2,

2 July 1995
 1 December 2000

**Standard Practice for Manuals, Technical:
 General Style and Format Requirements**

- 4.5.1.13 Destruction Notice. Change the existing sentence to read: "...or X shall be marked with Handling and Destruction Notice "a" (below) on the cover/title..." Add a new second sentence as follows: "Unclassified TOs authorized for Public Release (Distribution Statement "A") shall be marked with disposition notice "b" (below) on the title or T-2 page."
 4.5.1.13.a. Designate existing paragraph as "a. HANDLING AND DESTRUCTION NOTICE..."
 Add: "See TO 00-5-2 for specific destruction procedures."
 4.5.1.13.b (Added) b. DISPOSITION NOTICE - Refer to TO 00-5-2 for disposition instructions.

STANDARDIZATION INTERFACE RECORD FOR MIL-PRF-38804,
 Amendment 1,

1 March 1996
 20 June 1997

Time Compliance Technical Orders – Preparation

NOTE: Entries marked with an asterisk (*) will have to be manually entered and tagged in SGML files until the specification and its associated DTD and FOSI have been updated to incorporate the changes. The rescission date and statement will continue to appear in paragraph 3 of SGML-tagged TCTO files until the DTD and FOSI are updated.

Amendment 1 Delete entirely.

- 2.2.2 Change "AFM 67-1" to "AFMAN 23-110."
 Add "AFMCMAN 21-1 - Air Force Materiel Command Technical Order System Procedures" at the end of the Air Force Instructions.
- 3.5.2g Add new line: "g. Rescission Date (see 3.5.2.6.1)" Renumber following paragraphs to "h" through "l".
- 3.5.2.4 Change 1st sentence to read: "...supplement thereto (see 3.6) provided by the acquiring activity on an AFMC Form 873 (see 6.5)."
- 3.5.2.5 Change 1st sentence to read: "...acquiring activity on an AFMC Form 873 (see 6.5)."
- * 3.5.2.6 Change 1st sentence to read: "...acquiring activity on an AFMC Form 873 (see 6.5)." Change last sentence to read: "...in the Y2K format: YYYYMMDD (see Figures 1 through 6)"
- * 3.5.2.6.1 (Added) "Rescission Date. The contractor shall enter the TCTO rescission date in the upper right corner of the first page immediately below the TCTO issue date. The rescission date will be specified on the AFMC Form 873 (see 6.5). The date will be in the government-approved Y2K format YYYYMMDD."
- 3.5.2.8 Add to the end of the paragraph: "See AFMCMAN 21-1 for additional guidance."
- 3.5.2.9.1d Change to read: "...reinstating and establishing a new rescission date for rescinded TO..."
- 3.5.2.9.4 Change "AFMC/AFCC" to "AFMC/AFCA/AFSPC"

* 3.5.3.3 Change “proofing” to “verification” (4 places)

Change last sentence to read: “...waived, the office symbol, e-mail address and Defense Switched Network (DSN) phone number of the approving official shall...”

3.5.5.3 Replace “a” through “d” with the following:

a. (Added) Routine Safety Inspection Organizational/Intermediate Level TCTOs. “Not later than (#) days after receipt of this TCTO. Affected system/equipment shall be removed from service if this TCTO is not accomplished within the specified number of days, or 60 days prior to the TCTO rescission date, whichever comes first. The specified number of days for accomplishment shall be provided on the AFMC Form 873 (see 6.5).

b. Routine Action, Organizational/Intermediate Level, Safety TCTO. “Not later than ___ days after receipt of (this TCTO) (kits) (parts) (special tools). Failure to accomplish this TCTO by the preceding specified number of days, or 60 days prior to the TCTO rescission date, whichever comes first, shall automatically restrict operations or shall be justification for withdrawing affected system/equipment from service until compliance is accomplished. The specified number of days for accomplishment shall be provided on an AFMC Form 873 (see 6.5).

c. Routine Action, Organizational/Intermediate Level TCTO. Organizational/Intermediate level TCTOs having a compliance period in terms of days shall read: “Not later than ___ days after receipt of (this TCTO) (kits) (parts) (special tools). Failure to accomplish the work by expiration of the compliance period, or 60 days prior to the TCTO rescission date, whichever comes first, shall be justification for withdrawing the affected system/equipment from service until compliance is accomplished. The specified number of days and requirements for accomplishment shall be provided on an AFMC Form 873 (see 6.5).

d. Routine Action, Organizational/Intermediate Level, Based Upon Maintenance Practice. When the time period for accomplishment cannot be specified as a certain number of days after receipt of the TCTO, kits, parts or special tools, the TCTO may specify compliance at the time a known maintenance event occurs, such as “At the time of removal from Emergency War Order (EWO) status (or During scheduled modernization action). If not complied with by (date), or 60 days prior to the TCTO rescission date, whichever comes first, the system/equipment shall be removed from active service until compliance with the TCTO is accomplished. The preceding phrase is an example of the type to be used and may be expanded or worded to the individual requirement as needed. Use of the phrases “upon failure,” “upon accumulation” or “when reaching” are not authorized for any TCTO. The required statement shall be provided on an AFMC Form 873 (see 6.5).

e. Routine Action, Depot Level. These modifications require specified accomplishment at a time designated by the acquiring activity by means of the AFMC Form 873 (see 6.5) at overhaul, contractor team, force modernization, AFMC schedule or whatever other phrase that is most appropriate.

3.5.5.4 Add new sentence as follows: “The required statements shall be provided on an AFMC Form 873 (see 6.5).”

3.5.5.5 (Added in Amendment 1) Delete.

3.5.7.1.1.1 Change 4th and 5th lines to read: “...concept waived by (insert name/rank/office symbol/DSN phone number and e-mail address of the Lead Command POC authorizing a waiver of the complete...”

3.5.7.2 Change “proofing” to “verification” (2 places)

3.5.7.2.1 (Added) “For Inspection TCTOs, the AFSCs and manhours shall be based on Maintenance Data Collection (MDC) records. The equivalent work phases will be:

- a. Equipment preparation.
- b. Access work area.
- c. Perform inspection.
- d. Close work area.
- e. Operational check and documentation.”

3.5.7.2.1 (Existing) Renumber as 3.5.7.2.2.

3.5.10.1.4 Delete “and AFMCM 66-20, Chapter 4 (-21 TOs)”

3.5.11.1 Change 1st sentence to read: “...the name, organization and office symbol, DSN telephone number, and e-mail address of the POC responsible...”

Change 2nd sentence to read: “...and the information for the POC authorizing...”

- 3.6 Delete the last sentence (“All supplements shall be assigned a new data code number.”)
 - 3.6.1 Change 1st sentence to read: “...supplement, or it explicitly changes the TCTO rescission date.”
 - 3.6.6 Delete “, IF APPROVED BY THE MAJCOM,” in the NOTE text.
 - 4.1 Change title to “Contractor Prototyping.”
 - 4.1b Change to read: “...perform the prototyping functions specified...”
 - 4.1d Change to read: “...review any of the prototyping functions, when...”
 - 4.1.1 Change “verification” to “prototyping” (2 places)
 - 4.1.1d, e & f (Added) “d. Form, fit and function of TCTO kits and modified components.
e. TO update accuracy.
f. Proper function of the modified equipment.”
 - 5.2 Replace with: “Bill of Materials. TCTO kits shall contain a Bill of Materials listing all of the items required to accomplish the TCTO. As a minimum, the format of the Bill of Material shall be as follows:”
 - 6.2l Change to read: “Issue and Rescission dates (see 3.5.2.6 & 3.5.2.6.1).”
 - 6.2x Delete.
 - 6.4.8 Change “verification” to “prototyping” (2 places)
 - 6.4.8a Add “Includes validating the form, fit, and function of any kits involved, accuracy of associated TO updates, and proper operation of the modified equipment.”
 - 6.5 Change 1st sentence to read: “...are contained in AFMCMAN 21-1, Air Force Materiel Command Technical Order System Procedures.”
 - 6.6 Add “prototyping” and “supplement” to key word list.
- Figures 3, 4 & 5 Change “Proofing” to “Verification” in each figure.

INSTRUCTIONS FOR COMPLETING DD FORM 1423
(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

- Item A.** Self-explanatory.
- Item B.** Self-explanatory.
- Item C.** Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "Provisioning," "Configuration Management," etc.
- Item D.** Enter name of system/item being acquired that data will support.
- Item E.** Self-explanatory (to be filled in after contract award).
- Item F.** Self-explanatory (to be filled in after contract award).
- Item G.** Signature of preparer of CDRL.
- Item H.** Date CDRL was prepared.
- Item I.** Signature of CDRL approval authority.
- Item J.** Date CDRL was approved.
- Item 1.** See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2.** Enter title as it appears on data acquisition document cited in Item 4.
- Item 3.** Enter subtitle of data item for further definition of data item (optional entry).
- Item 4.** Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5.** Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6.** Enter technical office responsible for ensuring adequacy of the data item.
- Item 7.** Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8.** Specify requirement for approval of a draft before preparation of the final data item.
- Item 9.** For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
- Item 10.** Specify number of times data items are to be delivered.
- Item 11.** Specify as-of date of data item, when applicable.
- Item 12.** Specify when first submittal is required.
- Item 13.** Specify when subsequent submittals are required, when applicable.
- Item 14.** Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15.** Enter total number of draft/final copies to be delivered.
- Item 16.** Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

**TDP OPTION SELECTION WORKSHEET
PRODUCT DRAWINGS AND ASSOCIATED LISTS**

A. CONTRACT NO.	B. EXHIBIT/ATTACHMENT NO.	C. CLIN.	D. CDRL DATA ITEM NO.
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1. DELIVERABLE PRODUCT *(X and complete as applicable)*

	a. ORIGINALS <i>(Drawing masters) (Identify specification, type, grade and class, etc.)</i>
<input checked="" type="checkbox"/>	b. REPRODUCTIONS <i>(Identify specification, type, grade and class, etc., and quantity of each)</i> Preliminary deliveries will be in paper copy
<input checked="" type="checkbox"/>	c. DIGITAL DATA <i>(Identify specification, exchange media, etc.)</i> Requirements delivered upon request

2. CAGE CODE AND DOCUMENT NUMBERS *(X one)*

<input checked="" type="checkbox"/>	a. CONTRACTOR	
	b. GOVERNMENT <i>(Complete (1) and (2) or (3))</i>	
(1) Use CAGE Code	(2) Use Document Numbers	(3) To Be Assigned By:

3. DRAWING FORMATS AND DRAWING FORMS *(X one and complete as applicable)*

<input checked="" type="checkbox"/>	a. CONTRACTOR FORMATS. Forms to be supplied by contractor.
	b. GOVERNMENT FORMATS. Forms to be supplied by contractor. Samples supplied by <i>(Specify)</i>
	c. GOVERNMENT FORMATS. Forms to be supplied as Government Furnished Material by <i>(Specify)</i>

4. TYPES AND QUANTITY OF DRAWINGS SELECTION *(X one)*

<input checked="" type="checkbox"/>	a. CONTRACTOR SELECTS		b. GOVERNMENT SELECTS <i>(Specify in Item 9)</i>
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5. ASSOCIATED LISTS *(X and complete as applicable)*

<input checked="" type="checkbox"/>	a. PARTS LISTS <i>(X one)</i>	(1) Integral	<input checked="" type="checkbox"/>	(2) Separate	(3) Contractor's Option
<input checked="" type="checkbox"/>	b. DATA LISTS <i>(X one)</i>	(1) Not Required		(2) Required <i>(Specify levels of assembly)</i>	
	c. INDEX LISTS <i>(X one)</i>	(1) Not Required	<input checked="" type="checkbox"/>	(2) Required <i>(Specify levels of assembly)</i>	

6. DETAILS *(X one)*

<input checked="" type="checkbox"/>	a. MULTIDETAILED DRAWINGS PERMITTED		b. MONODETAILED DRAWINGS MANDATORY
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7. QUALITY ASSURANCE PROVISIONS *(X one)*

	a. NOT REQUIRED. MIL-T-31000, para 3.8 does not apply.	
<input checked="" type="checkbox"/>	b. REQUIRED. MIL-T-31000, para 3.8 applies. Quality assurance requirements shall be documented as QAPs in accordance with MIL-T-31000, Appendix B. <i>(X one)</i>	
	(1) DARCOM Form 2484-R Required	(2) DARCOM Form 2484-R Not Required

8. VENDOR SUBSTANTIATION DATA *(X one)*

<input checked="" type="checkbox"/>	a. NOT REQUIRED		b. REQUIRED
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9. OTHER TAILORING *(Attach additional sheets as necessary)*

per attached 1423

Digital Drawing File Format and Metadata Spreadsheet Requirements:

Approved file formats: TIF, AutoCAD14, AutoCAD 2000, (.DWG), C4, PDF, Word, (.DOC) Excel (.XLS) and HPGL and HPGL2 (HPL) CAL.

1. A spreadsheet table structure that covers only the data to be delivered is required for each delivery. The Metadata spreadsheet shall be delivered in Microsoft Access 2000 digital format. ***Note Header information from this spreadsheet is used along with the delivered digital data files to load data into Digital Data Repository.
2. Each row in the spreadsheet shall represent a distinct sheet number, unless covered by the item 3 or 4. All fields are left justified, except Sheet Number, Frame Number of a document number; Revision Letter and Accompanying Document Revision (refer to the table description). The data field titles shall be included at the top of the spreadsheet on row 1 only of the delivered spreadsheet. PIN and PIN revision fields shall be filled for all design model and engineering data files that do not include borders and drawing blocks. For spreadsheets delivered that exceed one thousand rows, the spreadsheet shall be divided into separate spreadsheet files on the delivered media. This division of spreadsheets should not cause the referenced documents listing nor the indentured levels set listing that applies to a certain document number to be divided into separate spreadsheets.
3. For word processing documents, enter one row for each file of the native document number delivered. The filename, document number, and all other applicable columns shall be filled.
4. For design model and engineering data files that do not include borders and drawing blocks, the sheet number is not applicable. (leave blank)
5. All letters to be uppercase.
6. File names shall not include spaces, periods, commas, back slash, forward slash, percent signs or pipes.
7. J size drawings must be divided into multiple E size snapshots (frames) each of which is an individual file. The document size (column E) is J for each file.
8. If Data input is not required per the following table, then the spreadsheet column is created but left blank.
9. Only one image is allowed in a TIF file. The single image shall show a single sheet.
10. Files for B,C, D or E size drawings can be any approved file format **except** Word.
11. Sheets and Frames for Drawings (Non-DOC): Each row on the spreadsheet is a unique file that can show an image that was originally no larger than E size (approx 35" x 46"). In most cases a frame can show an entire drawing sheet, hence there is one file per sheet. If the drawing format is oversized, it takes more than one frame to show the sheet and hence more than one file to deliver an oversize sheet.

12. For PDF or DOC formats, "A" size drawings should be submitted as a single file without regard to how many sheets are in the drawing. The Air Force JEDMICS Viewer opens Adobe Acrobat or Microsoft Word so that the drawing may be viewed. The sheet assignments (columns I and J) and frame assignments (columns L and M) for this line of metadata are all 1. (No longer needing leading zero's 0001)
13. TIF images are converted into C4 format before they are imported into JEDMICS. In order for this conversion to be successful the TIF files must not exceed 9216 pixels wide by 7168 pixels high. Drawing size and resolution are what determine the number of pixels in the image. It is recommended that TIF images be saved at 200 dpi. At this resolution the maximum dimension of the original image would be 46.08 inches wide and 35.84 inches high, large enough for a standard E size drawing. A standard font must be used in order to be converted to C-4 format.
14. Gerber data- the drawing and its associated metadata file must be submitted along with the Gerber file. The doc size input for the Gerber file must be the same as its associated drawing size. Gerber files cannot be stored in JEDMICS without the accompanying C4 image. It is not necessary to provide the scaling for Gerber files.
16. All fields on Metadata spreadsheet must remain even if no information is entered in field.

Attachment 1

CONTRACT DATA REQUIREMENTS LIST*(1 Data Item)*

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP <input checked="" type="checkbox"/> TM <input type="checkbox"/> OTHER <input type="checkbox"/>
D. SYSTEM/ITEM A-10	E. CONTRACT/PR NO.	F. CONTRACTOR

16. REMARKS (Continued)

d. The contractor shall conduct and support periodic In Process Review (IPR) meetings or teleconferences to discuss program/project drawing reviews and status.

Blk 13

e. Prior to final delivery of drawings, the contractor shall submit to OO-ALC/LGVTC a digital data sample, including Metadata file, for drawings and associated lists, no later than 30 days before final drawing review per direction from OO-ALC/LGVTC. The government requires 30 working days for inspection and acceptance of sample Metadata. Metadata shall be submitted in latest version used by the government. OO-ALC/LGVTC will provide sample Metadata file(s) and sample digital data when final delivery media for drawings has been determined.

f. Final Delivery of Product Drawings and Associated Lists: Final submittal media of drawings shall be in proper format per direction from OO-ALC/LGVTC on a CD-ROM with Metadata prepared in Microsoft Access 2000. Final submittal media for EO's shall be a file on CD-ROM. Final submittal media of other data products, such as mylars, artwork or Gerber data, shall be in proper format per direction from OO-ALC/LGVTC.

Tailoring to ASME's as follows:

ASME Y14.100-2000

- (1) Application Data para 4.6 Application Data is required on drawings; general use or multi-use notation is allowed.
- (2) Drawing Notes para. 4.26 Drawing Notes shall be on first sheet of drawing.

ASME Y14.35M

- (1) Redrawn Drawings shall be IAW para 4.3 sub-para 4.3.2
- (2) Revision column shall be IAW para 6.1 sub-para 6.1.2, 6.13. Contractor shall maintain revision history in its entirety.
- (3) Revision Letters shall be IAW para 7.1 sub-para 7.1.1 (a), (b), (d), (e) para 7.2, sub-para 7.2.1 (a), (b), (c)
- (4) Revision History Block shall be IAW para 7.1 sub-para 7.1.2 (a), (b)
- (5) Revision status of sheets block shall be IAW para 7.4 sub-para 7.4.2 (a),(b),(c)
- (6) Adding sheets shall be IAW para 7.5 sub-para 7.5.1 (a)
- (7) Deleting sheets shall be IAW para 7.5 sub-para 7.5.2 (b)

ASME Y14.5M

Dimensioning and Tolerancing shall be IAW para 1.6 and shall be decimal inch.

ASME Y14.3M

Angle of projection shall be IAW para 1.6.1 third angle projection.

ASME Y14.100-2000 INVOKED APPENDICES:

- Appendix B- Non-Commerical Drawing Practices
- Appendix B- for para B5 see TDP Optional Selection Worksheet
- Appendix C- Drawing Title
- Appendix D- Numbering, Coding, and Identification
- Appendix E- Marking on Engineering Drawings
- Appendix E- for para E7 see DD1423 Blk 9